

CLAIM AMENDMENTS

1 1. (Amended) A biocompatible, low viscosity, radiation
2 curable formulation ~~, especially for stereo, for use in medicinal~~
3 ~~technology, especially for producing earpieces,~~ comprising:

4 a) 55 to 95 weight percent of a monomeric or oligomeric
5 dimethacrylate ~~on the basis~~ of bisphenol-A or bisphenol-F;

6 b) 0 to 20 weight percent of a urethane methacrylate with a
7 viscosity ~~→ 4~~ functionality $n < 4$ and a viscosity $< 15 \text{ Pa s}$;

8 c) 2 to 15 weight percent of a monomeric or aliphatic or
9 cycloaliphatic dimethacrylate with a viscosity $< 5 \text{ Pa s}$;

10 d) 0 to 15 weight percent of a monofunctional methacrylate
11 with a viscosity $< 3 \text{ Pa s}$;

12 e) 0.5 to 6 weight percent of one or a combination of
13 photoinitiators ~~whose absorption lies in the wavelength range of the~~
14 ~~laser beam used~~ effective to form free radicals;

15 f) 0.001 to 2 weight percent of the free radical inhibitor
16 2,2,6,6-tetramethylpiperdine-1-yloxy ~~(free radical)~~ which can be present
17 in combination with known inhibitors;

18 g) 0 to 40 weight percent of fillers;

19 h) 0 to 5 weight percent of color pigments; and

20 i) 0 to 5 weight percent of usual additives like UV
21 stabilizers or flow additives, ~~whereby the proportion of the components a~~
22 ~~to h together amounts to 100%.~~

- 1 2. (Amended) The formulation according to claim 1 comprising:
- 2 a) 60 to 90 weight percent of ~~an n-fold~~ ethoxylated bisphenol-
- 3 A-dimethacrylate with a degree of ~~ethyloxilation~~ ethoxylation of $n < 10$
- 4 or a mixture of ~~n-fold~~ ethoxylated bisphenol-A-dimethacrylate with a
- 5 degree of ethoxylation of $n < 10$;
- 6 b) 5 to 17 weight percent of an aliphatic or cycloaliphatic
- 7 urethane methacrylate with ~~sensitivity~~ a functionality of $n < 4$ and a
- 8 viscosity of $< 10 \text{ Pa s}$;
- 9 c) 3 to 10 weight percent of an aliphatic or cyclo-aliphatic
- 10 urethane dimethacrylate with ~~[[and]]~~ a viscosity $< 3 \text{ Pa s}$;
- 11 d) 2 to 10 weight percent of a monofunctional methacrylate
- 12 with a viscosity of $< 3 \text{ Pa s}$;
- 13 e) 1 to 4 weight percent of one or a combination of a
- 14 plurality of photoinitiators ~~whose absorption is in the wavelength range~~
- 15 ~~of the laser beam used~~ effective to form free radicals;
- 16 f) 0.005 to 0.05 weight percent of the initiator free radical
- 17 inhibitor 2,2,6,6-tetramethylpiperdine-1-yloxy ~~(free radical)~~ optionally
- 18 in combination with known inhibitors;
- 19 g) ~~[[0.20]]~~ 0 to 20 weight percent of fillers;
- 20 h) 0 to 5 weight percent of color pigments;
- 21 i) 0.01 to 3 weight percent of conventional additives like UV
- 22 stabilizers or flow additives ~~whereby the proportion of the components of~~
- 23 ~~(a) to (h) amount together to 100%.~~